

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
31 July 2003 (31.07.2003)

PCT

(10) International Publication Number  
**WO 03/061838 A1**

(51) International Patent Classification<sup>7</sup>: **B04B 1/00**

**LAGERSTEDT, Torgny** [SE/SE]; Döbelngatan 89, S-113 52 Stockholm (SE).

(21) International Application Number: **PCT/SE02/02401**

(22) International Filing Date:  
19 December 2002 (19.12.2002)

(74) Agent: **CLIVEMO, Ingemar**; Alfa Laval Corporate AB, Hans Stahles väg, S-147 80 Tumba (SE).

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0200204-6 25 January 2002 (25.01.2002) SE

(71) Applicant (for all designated States except US): **ALFA LAVAL CORPORATE AB** [SE/SE]; Rudeboksvägen 3, S-221 00 Lund (SE).

(81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

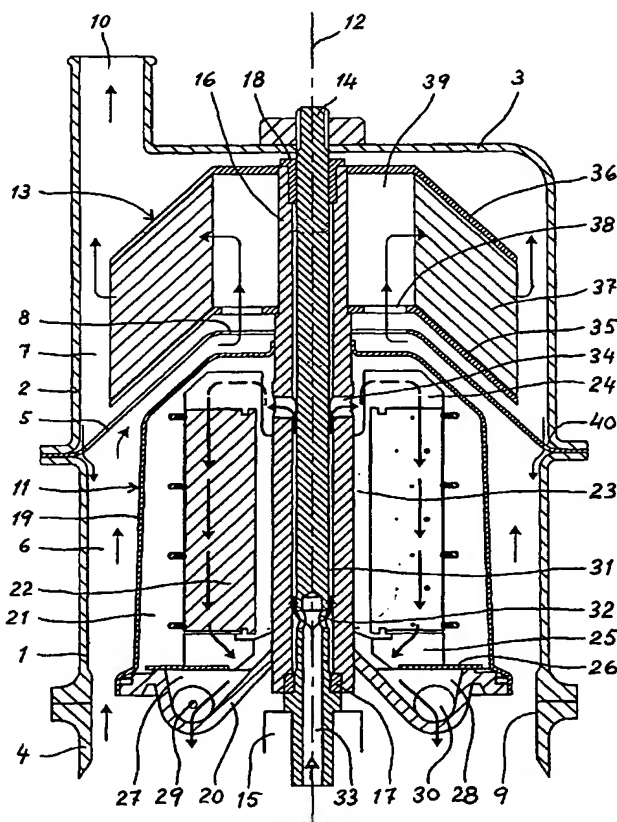
(72) Inventors; and

(75) Inventors/Applicants (for US only): **FRANZÉN, Peter** [SE/SE]; Måntorpsvägen 22, S-145 45 Tullinge (SE).

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: AN APPARATUS FOR SIMULTANEOUS CLEANING OF A LIQUID AND A GAS



(57) Abstract: In an apparatus for simultaneous cleaning of a liquid and a gas a centrifugal rotor (11) for cleaning of the liquid is connected with a device (13) for cleaning of the gas. The centrifugal rotor (11) is contained in a stationary housing (1), and this housing delimits a supply passage (6) for gas to be cleaned and on its way to the cleaning device (13). The gas cleaning device (13) comprises a stack of conical separation discs (37) surrounding a gas inlet chamber (39) and surrounded by a receiving chamber (7) that is delimited by a surrounding stationary casing (2).

WO 03/061838 A1

WO 03/061838 A1



European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*